



katoni
ENGINEERING

Safer | Greener | More efficient.

Debbi Blackwood CEng, FSPProf

Safety & Compliance



Net Zero Solutions



Who We Are






Assurance & Optimisation



EPC



Our commitment to safety encompasses various critical areas, including:

-  Safety Reviews
-  Functional Safety
-  HSE Audit and Compliance Reviews
-  Electrical Safety (Arc Flash)
-  Cyber Security

Safety & Compliance



Functional Safety Lifecycle



Ops & Maintenance



Defined Roles Offshore

Only 40% of Duty Holders have defined roles for Ops & Maintenance.



Training and Competency Requirements

Only 20% have specific training and competency requirements for Functional Safety in place.



Challenges with Technician Training

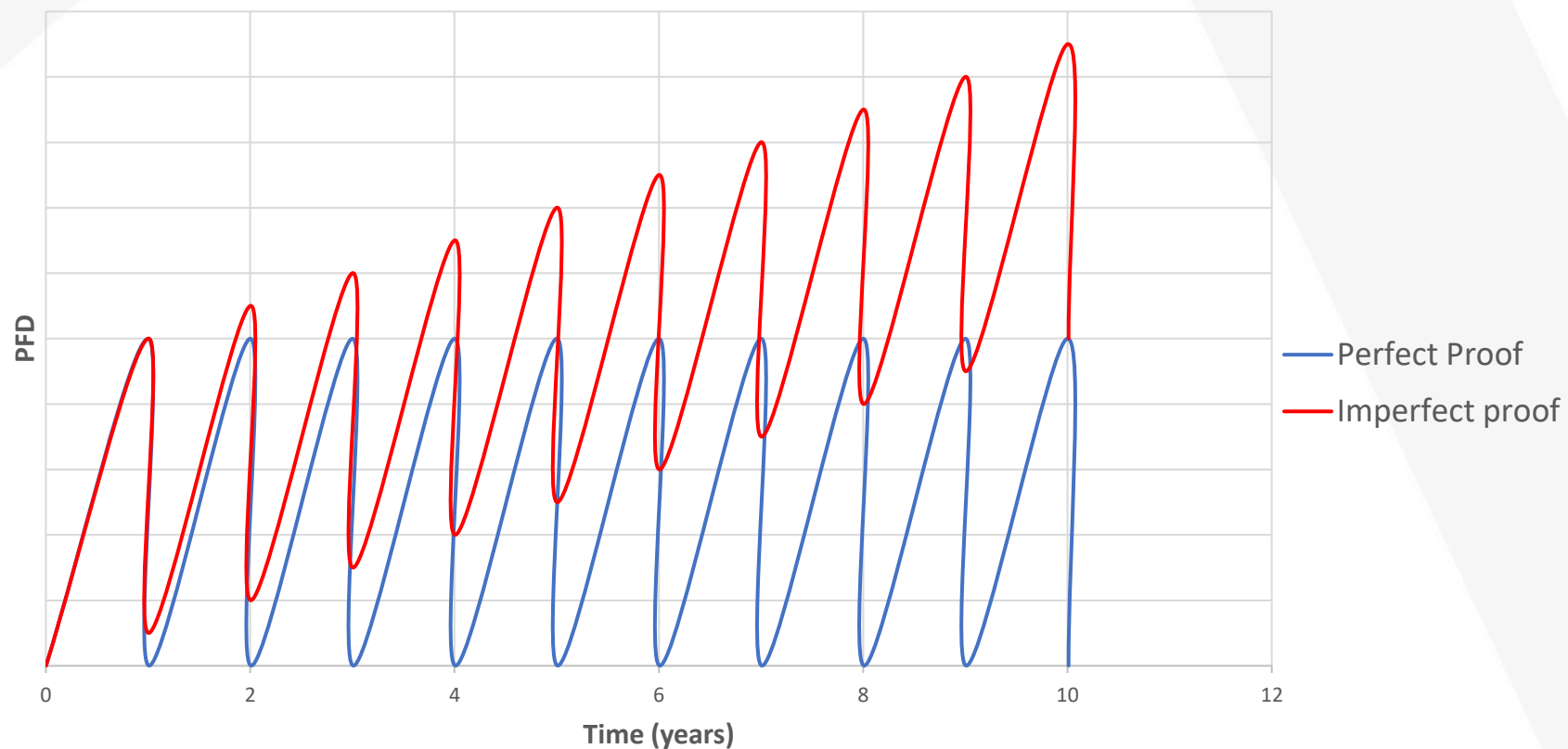
Significant proportion of technicians perform SIS maintenance with inadequate training and coaching.

Ops & Maintenance

 Competence of Technicians

 Proof Tests

Perfect vs Imperfect



Ops & Maintenance

- Competence of Technicians
- Proof Tests
- Operational Data

% THAT USE OPERATIONAL DATA EFFECTIVELY



Ops & Maintenance

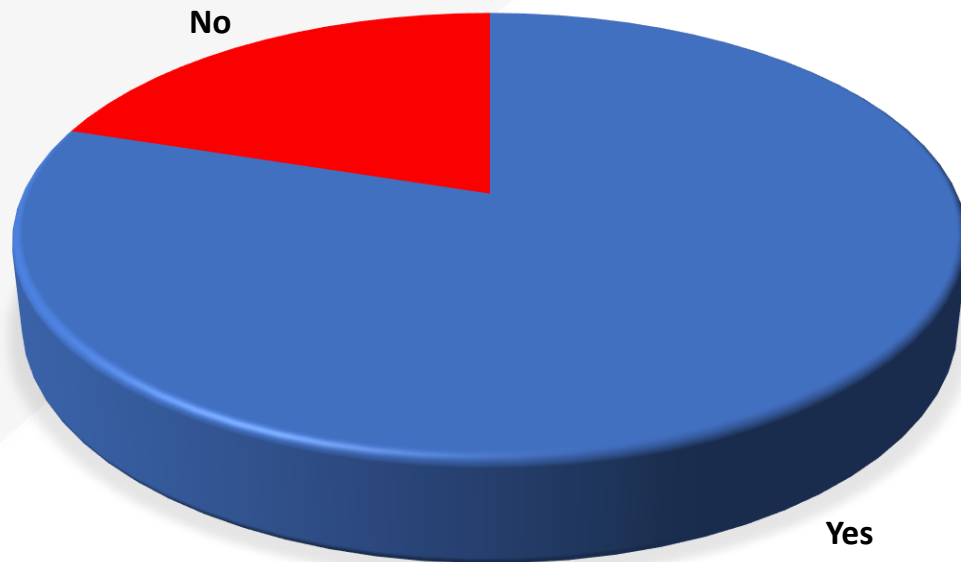
- Competence of Technicians
- Proof Tests
- Operational Data
- ORAs and Deferrals

SIS DEFERRALS & OVERRIDES

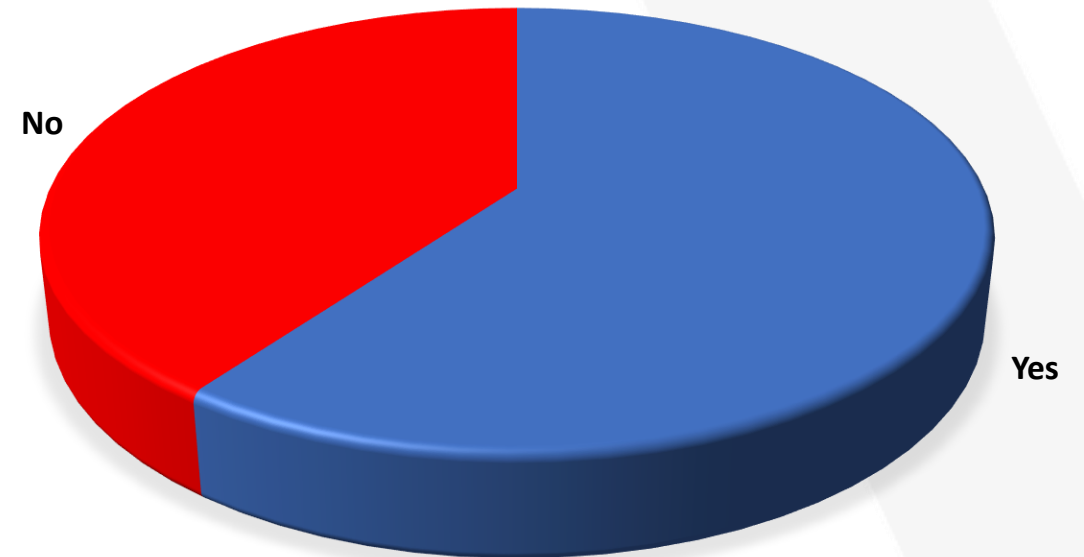


Management of Change

MOC PROCEDURE IDENTIFIES SIF IMPACTED

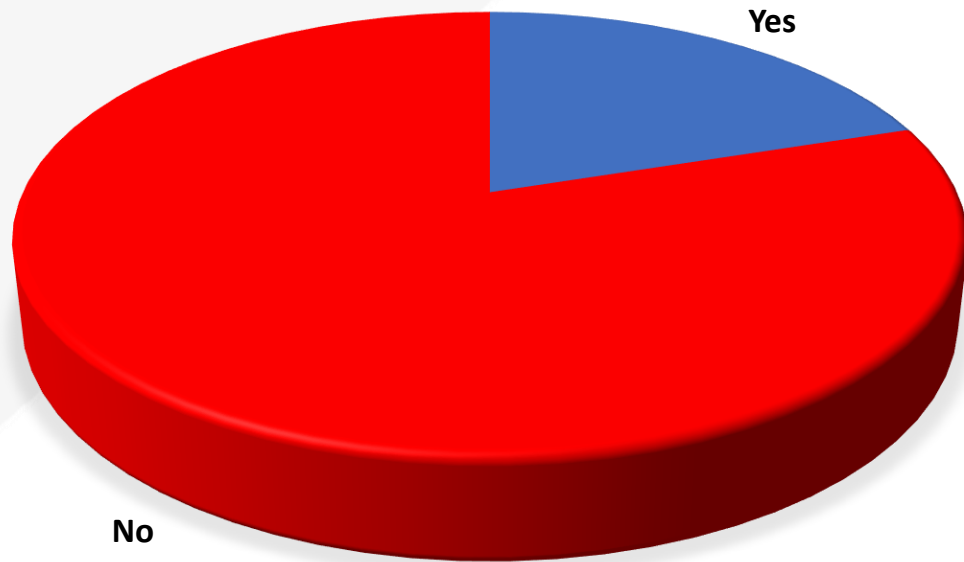


FSA5 REQUIREMENT

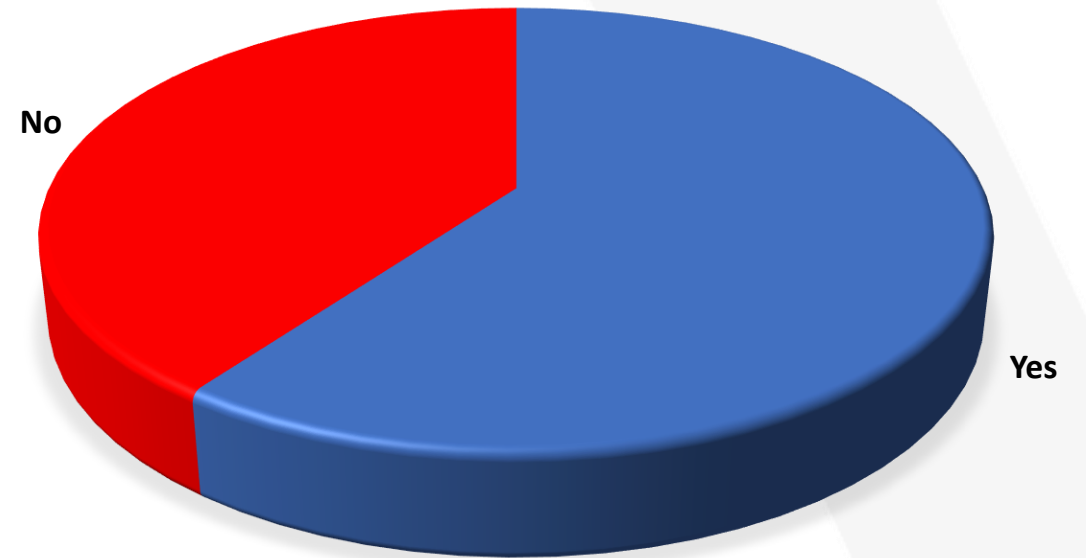


Management of Change

FSA5 REQUIREMENT WITHIN MOC PROCESS



RECORD OF ALL SIS MODS KEPT



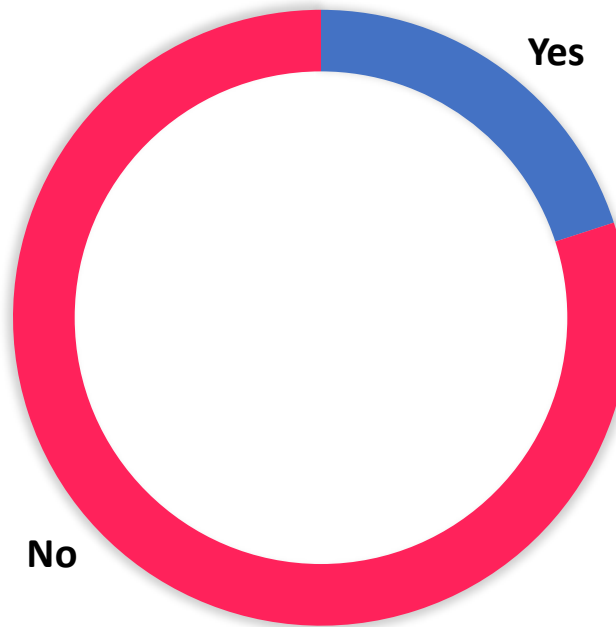
Functional Safety Assessments and Audits

-  **Do your Functional Safety Assessments!**
-  **Do your Functional Safety Audits!**

Functional Safety Assessments and Audits

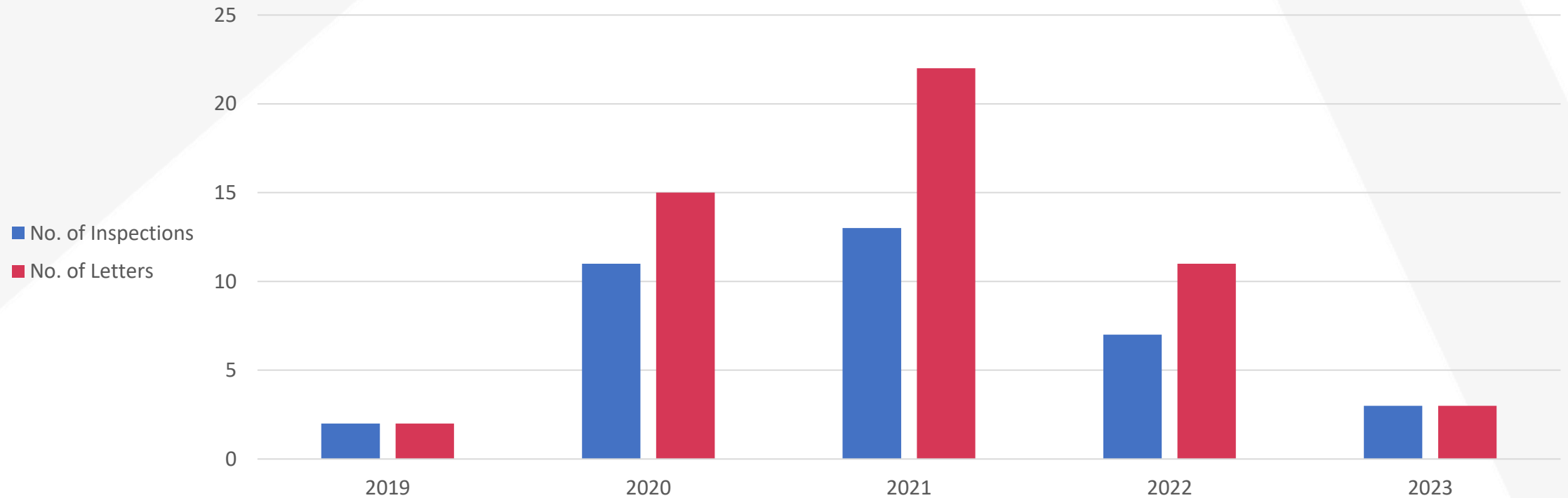
 Do your Functional Safety Audits!

% OF DHS CARRYING OUT FS AUDITS



The Future?

Recent offshore Loss of Containment Inspections



The Future?

Functional Safety Inspection Guide

Offshore Major Accident Regulator  Offshore Petroleum Regulator
for Environment & Decommissioning



The Offshore Functional Safety Inspection Guide

Open Government Status

Fully Open

Relevant Legislation

- Offshore Installations (Offshore Safety Directive) (Safety Case etc.) Regulations 2015
- Offshore Installations (Prevention of Fire and Explosion, and Emergency Response) Regulations 1995 Regulation 5, 9 and 19
- Management of Health and Safety at Work Regulations 1999 Regulation 3 and 5
- Provision and Use of Work Equipment Regulations 1998 Regulation 5 and 6
- Network and Information Systems (NIS) Regulations 2018

The Future?

